

CLAIMS

1. An apparatus for providing electrical coupling, comprising:
a motor having a hollow, rotational shaft for allowing electrical signals to pass there through.
2. The apparatus of claim 1, wherein said shaft comprises a conductor, the shaft for conducting electrical signals through said motor.
3. The apparatus of claim 1, further comprising an electrical conductor located within said shaft for providing said electrical signals through said motor.
4. The apparatus of claim 3 wherein the electrical conductor comprises a coaxial cable.
5. The apparatus of claim 3 wherein the electrical conductor comprises a rotational coupler.
6. The apparatus of claim 3 wherein the electrical conductor comprises a wire.
7. The apparatus of claim 1 wherein the shaft comprises a waveguide.
8. The apparatus of claim 7, wherein the shaft additionally comprises a waveguide coupler.
9. The apparatus of claim 1, further comprising a rotational coupler for coupling said electrical signals between a second conductor and the conductor.
10. The apparatus of claim 1, further comprising a platform connected to the shaft, wherein the conductor is fixed with respect to the shaft.
11. The apparatus of claim 1, further comprising a platform connected to the shaft, wherein the conductor is affixed to the shaft and rotates therewith.

12. The apparatus of claim 3, wherein the coaxial cable comprises an outer conductor, a dielectric, and a center conductor, wherein the dielectric and the center conductor are fixed, and the outer conductor is fixed to said shaft.

13. The apparatus of claim 1, wherein said shaft comprises:
a dielectric material within said shaft and affixed thereto; and
a center conductor within said dielectric material.